

# Multi-function Lens Tester

## User Manual



Please read the user manual carefully and keep it properly before use.

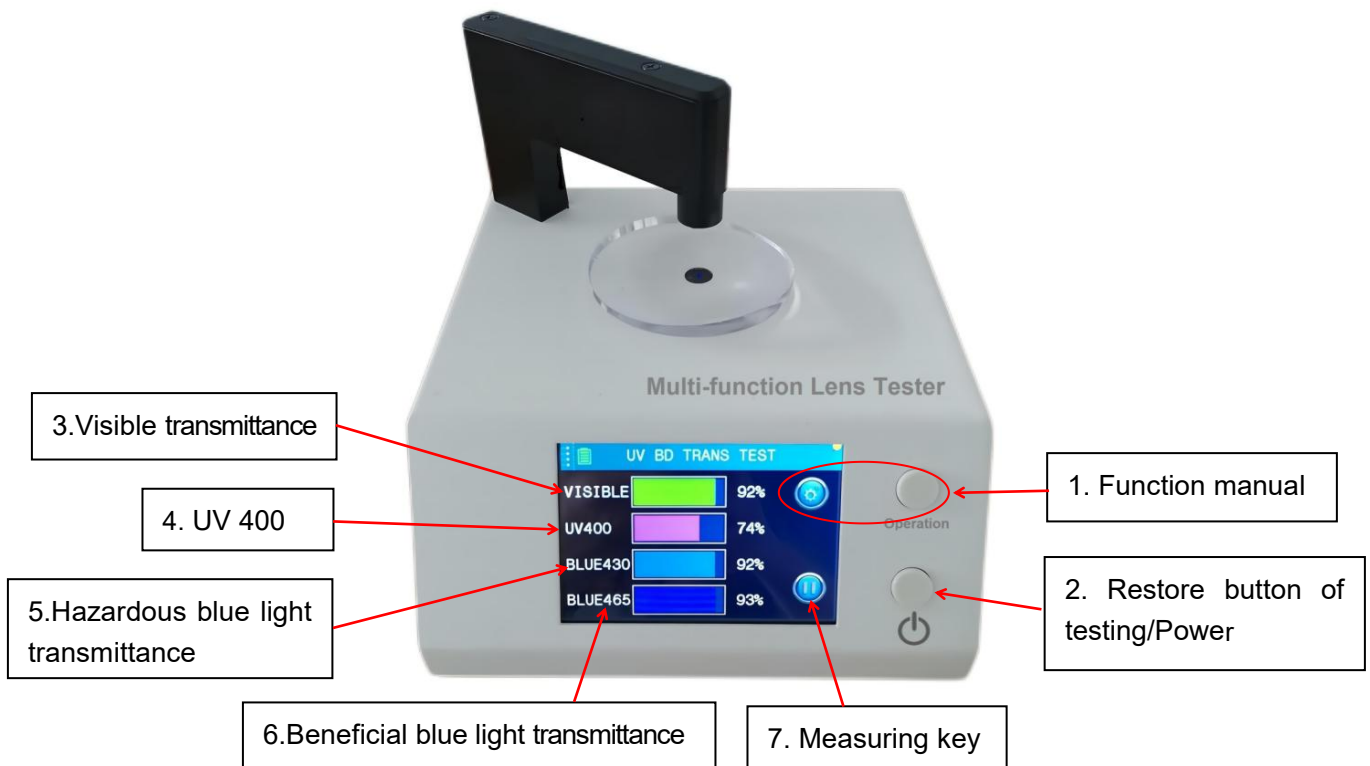
The testing principle uses four different wavelength light sources in the table below to irradiate the transparent substance under test. The sensor detects the intensity of the same light source passing through the transparent substance under test and the incident intensity. The ratio of the two is used as the transmittance, which is displayed as a percentage.

Mainly used for testing the optical performance of transparent materials for eyeglass lenses, anti-blue light coating materials and organic materials, etc.

## 1. Technology parameters

Option	Parameters
Wavelength	UV light: peak wavelength 400nm
	Hazardous blue light: at a peak wavelength of 430nm
	Beneficial blue light: with a peak wavelength of 465nm
	Visible light: 380~760nm all wavelength
Display	4.0inch 480X320 LCD color display
Operation	Button and touch
Minimal test lens size	Diameter: 1mm
Resolution	1%
Tolerance	±2 ( Colorless uniform light-transmitting substance , 0-90% transmittance)
DC power interface	DC5V/2A
Size	Long 170mmX wide 180mmX high 143mm
Weight	around 1.5kg
Others	Built-in lithium battery (Optional)

## 2. Operation&function



1. Function button, press it to enter the setting interface

2. Restore button of testing

Plug in the power supply, press and hold this on/off button for 3 seconds to perform the power on operation and enter the measurement interface;

On the measurement interface, press and hold the on/off button for 3 seconds to hear a beep and enter the shutdown state.

3. Visible light transmittance ratio

4. UV 400 transmittance ratio

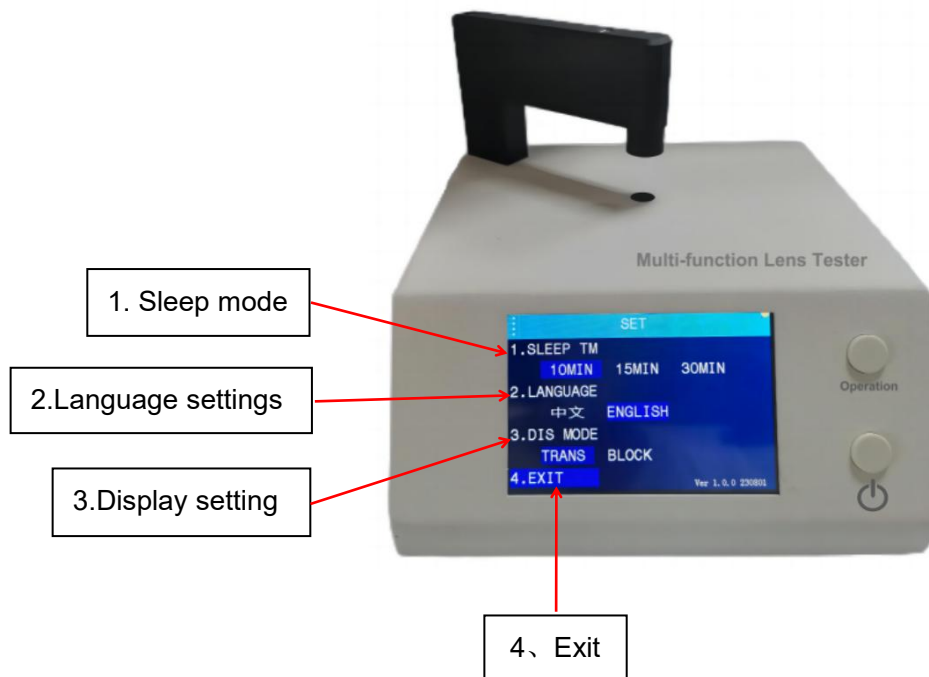
5. **Hazardous blue light transmittance** ratio

6. Beneficial blue light transmittance ratio

7. Measuring key

After turning on, enter the measurement interface, and the visible light

transmittance, UV light transmittance, beneficial blue light transmittance, and harmful blue light transmittance are displayed at 100%, respectively. Short press this button to start measurement or lock measurement results; Long press for 3 seconds to set the display result to transmittance or blocking rate.



#### 1、 Sleep mode

There are three options for standby time, which can be set to 10 minutes, 15 minutes, or 30 minutes. Enter sleep mode after the standby time has ended.

#### 2、 Language settings

Select the "Chinese" measurement interface to switch to Chinese mode;

Select the "English" measurement interface to switch to English mode;

#### 3、 Display setting

Select the "Transmission Rate" measurement interface to switch to transmission mode;

Select the "Blockage Rate" measurement interface to switch to blocking mode.

#### 4、 Exit

After setting, press the Exit key to save the setting

### 3. Precautions

- (1) When starting up, the instrument should undergo self testing and self calibration.  
No test objects should be placed in the testing position, otherwise self calibration cannot be completed.
- (2) Avoid contact with corrosive substances and stay away from high temperature and humidity environments
- (3) When there is no test substance, the transmission data occasionally cannot return to "100%" or the barrier rate data cannot return to "0%". If the instrument is turned off and restarted immediately, it can be used normally without affecting the measurement accuracy.
- (4) Please turn off the instrument when it is not in use.

#### **4. Packing details**

Number	Item	Unit	Quantity
1	Multi-function Lens Tester	PC	1
2	User Manual	PC	1
3	Power resource	PC	1
4	USB cable	PC	1